

CCACGCGTCCGGTCAGCTCTGGTTCGGAGAAGCAGCGGCTGGCGTGGGCCATCCGGGGAATGGGC
GCCCTCGTGACCTAGTGTTCGGGGGCAAAAAGGGTCTTGCCGGCCTCGCTCGTCAGGGGCGTAT
CTGGGCGCCTGAGCGCGGCGTGGGAGCCTTGGGAGCCGCGCAGCAGGGGGCACACCCGGAACCG
GCCTGAGCGCCCGGGACCATGAACGGGGAGGCCATCTGCAGCGCCCTGCCACCATTCCCTACCA
CAAACCTCGCCGACCTGCGCTACCTGAGCCGCGGCGCCTCTGGCACTGTGTCTCCGCCCCCACC
CAGACTGGCGCGTCCAGGTGGCCGTGAAGCACCTGCACATCCACACTCCGCTGCTCGACAGTGAA
AGAAAGGATGTCTTAAGAGAAGCTGAAATTTTACACAAAGCTAGATTTAGTTACATTCTTCCAAT
TTTGGGAATTTGCAATGAGCCTGAATTTTTGGGAATAGTTACTGAATACATGCCAAATGGATCAT
TAAATGAACTCCTACATAGGAAAACCTGAATATCCTGATGTTGCTTGGCCATTGAGATTTCCCATC
CTGCATGAAATTGCCCTTGGTGTAATTAACCTGCACAATATGACTCCTCCTTTACTTCATCATGA
CTTGAAGACTCAGAATATCTTATTGGACAATGAATTTTCATGTTAAGATTGCAGATTTTGGTTTAT
CAAAGTGGCGCATGATGTCCCTCTCACAGTCACGAAGTAGCAAATCTGCACCAGAAGGAGGGACA
ATTATCTATATGCCACCTGAAAACCTATGAACCTGGAACAAAATCAAGGGCCAGTATCAAGCACGA
TATATATAGCTATGCAGTTATCACATGGGAAGTGTTATCCAGAAAACAGCCTTTTGAAGATGTCA
CCAATCCTTTTGAGATAATGTATAGTGTGTACAAGGACATCGACCTGTTATTAATGAAGAAAGT
TTGCCATATGATATACCTCACCGAGCACGTATGATCTCTCTAATAGAAAGTGGATGGGCACAAAA
TCCAGATGAAAGACCATCTTTCTTAAATGTTTAAATAGAAGTGAACCAAGTTTGGAGAACATTTG
AAGAGATAACTTTTCTTGAAGCTGTTATTCAGCTAAAGAAAACAAAGTTACAGAGTGTTCAGT
GCCATTACCTATGTGACAAGAAGAAAATGGAATTATCTCTGAACATACCTGTAAATCATGGTCC
ACAAGAGGAATCATGTGGATCCTCTCAGCTCCATGAAAATAGTGGTTCTCCTGAAACTTCAAGGT
CCCTGCCAGCTCCTCAAGACAATGATTTTTTATCTAGAAAAGCTCAAGACTGTTATTTTATGAAG
CTGCATCACTGTCTTGGAAATCACAGTTGGGATAGCACCATTCTGGATCTCAAAGGGCTGCATT
CTGTGATCACAAGACCATTCCATGCTCTTCAGCAATAATAAATCCACTCTCAACTGCAGGAACT
CAGAACGTCTGCAGCCTGGTATAGCCCAGCAGTGGATCCAGAGCAAAAGGGAAGACATTGTGAAC
CAAATGACAGAAGCCTGCCTTAACCAGTCGCTAGATGCCCTTCTGTCCAGGGACTTGATCATGAA
AGAGGACTATGAACTTGTTAGTACCAAGCCTACAAGGACCTCAAAAGTCAGACAATTACTAGACA
CTACTGACATCCAAGGAGAAGAATTTGCCAAAGTTATAGTACAAAATTGAAAGATAACAAACAA
ATGGGTCTTCAGCCTTACCCGGAAATACTTGTGGTTTCTAGATCACCATCTTTAAATTTACTTCA
AAATAAAAGCATGTAAGTGAAGTGTCTTTTCAAGAAGAAATGTGTTTCATAAAAGGATATTTATAAA
AA (SEQ ID NO:1)

FIG. 1

Applicant(s): John Bertin

NOVEL MOLECULES OF THE CARD-RELATED PROTEIN
FAMILY AND USES THEREOF

TTTTTATGGG AATCGCAGCT TGGAAGAGAC AGARCAATTC CAGAAWTAAA TTGRAATTGA
AGATTTAACC AATGTTGTTT TAAAATATTC TAACTTCAAA GAATGATGCC AGAACTTWAA
AAGGGRCTGC GCAGAGTAGC AGGGGCCCTG GAGGGCGCGG CCTGAATCCT GATTGCCCTT
CTGCTGAGAG GACACACGCA GCTGAAGATG AATTTGGGAA AAGTAGCCGC TTGCTACTTT
AACTATGGAA GAGCAGGGCC ACAGTGAGAT GGAAATAATC CCATCAGAGT CTCACCCCCA
CATTCAATTA CTGAAAAGCA ATCGGGAAC TCTGGTCACT CACATCCGCA ATACTCAGTG
TCTGGTGGAC AACTTGCTGA AGAATGACTA CTTCTCGGCC GAAGATGCGG AGATTGTGTG
TGCCTGCCCC ACCCAGCCTG ACAAGGTCCG CAAAATTCTG GACCTGGTAC AGAGCAAGGG
CGAGGAGGTG TCCGAGTTCT TCCTCTACTT GCTCCAGCAA CTCGCAGATG CCTACGTGGA
CCTCAGGCCT TGGCTGCTGG AGATCGGCTT CTCCCCTTCC CTGCTCACTC AGAGCAAAGT
CGTGGTCAAC ACTGACCCAG TGAGCAGGTA TACCCAGCAG CTGCGACACC ATCTGGGCCG
TGACTCCAAG TTCGTGCTGT GCTATGCCCC GAAGGAGGAG CTGCTGCTGG AGGAGATCTA
CATGGACACC ATCATGGAGC TGGTTGGCTT CAGCAATGAG AGCCTGGGCA GCCTGAACAG
CCTGGCCTGC CTCCTGGACC ACACCACCGG CATCCTCAAT GAGCAGGGTG AGACCATCTT
CATCCTGGGT GATGCTGGGG TGGGCAAGTC CATGCTGCTA CAGCGGCTGC AGAGCCTCTG
GGCCACGGGC CGGCTAGACG CAGGGGTCAA ATTCTTCTTC CACTTTCGCT GCCGCATGTT
CAGCTGCTTC AAGGAAAGTG ACAGGCTGTG TCTGCAGGAC CTGCTCTTCA AGCACTACTG
CTACCCAGAG CGGGACCCCG AGGAGGTGTT TGCCTTCCTG CTGCGCTTCC CCCACGTGGC
CCTCTTCACC TTCGATGGCC TGGACGAGCT GCACTCGGAC TTGGACCTGA GCCGCGTGCC
TGACAGCTCC TGCCCCCTGGG AGCCTGCCCC CCCCCTGGTC TTGCTGGCCA ACCTGCTCAG
TGGGAAGCTG CTCAAGGGGG CTAGCAAGCT GCTCACAGCC CGCACAGGCA TCGAGGTCCC
GCGCCAGTTC CTGCGGAAGA AGGTGCTTCT CCGGGGCTTC TCCCCAGCC ACCTGCGCGC
CTATGCCAGG AGGATGTTCC CCGAGCGGGC CCTGCAGGAC CGCCTGCTGA GCCAGCTGGA
GGCCAACCCC AACCTCTGCA GCCTGTGCTC TGTGCCCCTC TTCTGCTGGA TCATCTTCCG
GTGCTTCCAG CACTTCCGTG CTGCCTTTGA AGGCTCACCA CAGCTGCCCC ACTGCACGAT
GACCCTGACA GATGTCTTCC TCCTGGTCAC TGAGGTCCAT CTGAACAGGA TGCAGCCCAG
CAGCCTGGTG CAGCGGAACA CACGCAGCCC AGTGGAGACC CTCCACGCCG GCCGGGACAC
TCTGTGCTCG CTGGGGCAGG TGGCCCACCG GGGCATGGAG AAGAGCCTCT TTGTCTTCAC
CCAGGAGGAG GTGCAGGCCT CCGGGCTGCA GGAGAGAGAC ATGCAGCTGG GCTTCCTGCG
GGCTTTGCCG GAGCTGGGCC CCGGGGGTGA CCAGCAGTCC TATGAGTTTT TCCACCTCAC
CCTCCAGGCC TTCTTTACAG CCTTCTTCCT CGTGCTGGAC GACAGGGTGG GCACTCAGGA
GCTGCTCAGG TTCTTCCAGG AGTGGATGCC CCCTGCGGGG GCAGCGACCA CGTCCTGCTA

FIG. 3A

Applicant(s): John Bertin

NOVEL MOLECULES OF THE CARD-RELATED PROTEIN
FAMILY AND USES THEREOF

TCCTCCCTTC CTCCCGTTCC AGTGCCTGCA GGGCAGTGGT CCGGCGCGGG AAGACCTCTT
CAAGAACAAG GATCAGTTCC AGTTCACCAA CCTCTTCCTG TCGGGGCTGT TGTCCAAAGC
CAAACAGAAA CTCCTGCGGC ATCTGGTGCC CGCGGCAGCC CTGAGGAGAA AGCGCAAGGC
CCTGTGGGCA CACCTGTTTT CCAGCCTGCG GGGCTACCTG AAGAGCCTGC CCCGCGTTCA
GGTCGAAAGC TTCAACCAGG TGCAGGCCAT GCCCACGTTT ATCTGGAATC TCGCTGCAT
CTACGAGACA CAGAGCCAGA AGGTGGGGCA GCTGGCGGCC AGGGGCATCT GCGCCAACTA
CCTCAAGCTG ACCTACTGCA ACGCCTGCTC GGCCGACTGC AGCGCCCTCT CCTTCGTCCT
GCATCACTTC CCCAAGCGGC TGGCCCTAGA CCTAGACAAC AACAACTCTA ACGACTACGG
CGTGCGGGAG CTGCAGCCCT GCTTCAGCCG CCTCACTGTT CTCAGACTCA GCGTAAACCA
GATCACTGAC GGTGGGGTAA AGGTGCTAAG CGAAGAGCTG ACCAAATACA AAATTGTGAC
CTATTTGGGT TTATACAACA ACCAGATCAC CGATGTCGGA GCCAGGTACG TCACCAAAAT
CCTGGATGAA TGCAAAGGCC TCACGCATCT TAAACTGGGA AAAACAAAAA TAACAAGTGA
AGGAGGGAAG TATCTCGCCC TGGCTGTGAA GAACAGCAAA TCAATCTCTG AGGTTGGGAT
GTGGGGCAAT CAAGTTGGGG ATGAAGGAGC AAAAGCCTTC GCAGAGGCTC TCGGGAACCA
CCCCAGCTTG ACCACCCTGA GTCTTGCGTC CAACGGCATC TCCACAGAAG GAGGAAAGAG
CCTTGCGAGG GCCCTGCAGC AGAACACGTC TCTAGAAATA CTGTGGCTGA CCCAAATGA
ACTCAACGAT GAAGTGGCAG AGAGTTTGGC AGAAATGTTG AAAGTCAACC AGACGTTAAA
GCATTTATGG CTTATCCAGA ATCAGATCAC AGCTAAGGGG ACTGCCCAGC TGGCAGATGC
GTTACAGAGC AACACTGGCA TAACAGAGAT TTGCCTAAAT GGAAACCTGA TAAACCAGA
GGAGGCCAAA GTCTATGAAG ATGAGAAGCG GATTATCTGT TTCTGAGAGG ATGCTTTCTT
GTTTCATGGG TTTTGGCCCT GGAGCCTCAG CAGCAAATGC CACTCTGGGC AGTCTTTTGT
GTCAGTGTCT TAAAGGGGCC TCGCGAGGCG GGAATATCAG GAGTCCACTG CCTYCATGAT
GCAAGCCAGC TTCCTGTGCA GAAGGTCTGG TCGGCAAACCT CCCTAAGTAC CCGCTACAAT
TCTGCAGAAA AAGAATGTGT CTTGCGAGCT GTTGTAGTTA CAGTAAATAC ACTGTGAAGA
GAAAAA AAAA ACGGACGCGT GG (SEQ ID NO:7)

FIG. 3B

0055054 0430021

Applicant(s): John Bertin

NOVEL MOLECULES OF THE CARD-RELATED PROTEIN
FAMILY AND USES THEREOF

MEEQGHSEMEIIPSESHPHIQLLKSNRELLVTHIRNTQCLVDNLLKNDYFSAEDAEIVCACPTQP
DKVRKILDLVQSKGEEVSEFFLYLLQQLADAYVDLRPWLEIGFSPSLLTQSKVVVNTDPVSRYT
QQLRHHLGRDSKFVLCYAQKEELLLEEIYMDTIMELVGFSNESLGSLNSLACLDDHTTGILNEQG
ETIFILGDAGVGKSMMLQRLQSLWATGRLDAGVKFFFHFRCRMFSFCFESDRLCLQDLLFKHYCY
PERDPEEVFAFLLRFPHVALFTFDGLDELHSDLDLSRVPDSSCPWEPAPLVLNLLSGKLLKG
ASKLLTARTGIEVPRQFLRKKVLLRGFSPSHLRAYARRMFPERALQDRLLSQLEANPNLCSLCSV
PLFCWIIIFRCFQHFRAAFEGSPQLPDCTMTLTDVFLLVTEVHLNRMQPSSLVQRNTRSPVETLHA
GRDTLCSLGQVAHRGMEKSLFVFTQEEVQASGLQERDMQLGFLRALPELGPGGDQQSYEFFHLTL
QAFFTAFFLVLDLDRVGTQELLRFFQEWMPAGAAATTSCYPPFLPFQCLQSGPAREDLFKNKDH
QFTNLFLCGLLSKAKQKLLRHLVPAALRRKRKALWAHLFSSLRGYLKSLPRVQVESFNQVQAMP
TFIWMLRCIYETQSQKVGQLAARGICANYLKLTTCNACSADECSALSFVLHHPKRLALDLNNDL
NDYGVRELQPCFSRLTVLRLSVNQITDGGVKVLSEELTKYKIVTYLGLYNNQITDVGARYVTKIL
DECKGLTHLKLGNKITSEGKYLALAVKNSKSISEVGMWGNQVGDEGAKAFAEALRNHPSLTTL
SLASNGISTEGGKSLARALQQNTSLEILWLTQNELNDEVAESLAEMLKVNQTLKHLWLIQNQITA
KGTAQLADALQSNTGITEICLNGNLIKPEEAKVYEDEKRIICF (SEQ ID NO:8)

FIG. 4

CACGCGTCCGACTTGCTGAAGAATGACTACTTCTCGGCCGAAGATGCGGAGATTGTGT
GTGCTGCCCCACCCAGCCTGACAAGGTCCGCAAATTTCTGGACCTGGTACAGAGCAAG
GGCGAGGAGGTGTCCGAGTTCTTCTCTACTTGCTCCAGCAACTCGCAGATGCCTACGT
GGACCTCAGGCCTTGGCTGCTGGAGATCGGCTTCTCCCCTTCCCTGCTCACTCAGAGCA
AAGTCGTGGTCAACACTGACCCAGTGAGCAGGTATACCCAGCAGCTGCGACACCATCTG
GGCCGTGACTCCAAGTTTCGTGCTGTGCTATGCCAGAAGGAGGAGCTGCTGCTGGAGGA
GATCTACATGGACACCATCATGGAGCTGGTTGGCTTCAGCAATGAGAGCCTGGGCAGCC
TGAACAGCCTGGCCTGCCTCCTGGACCACACCACCGGCATCCTCAATGAGCAGGGTGAG
ACCATCTTCATCCTGGGTGATGCTGGGGTGGGCAAGTCCATGCTGCTACAGCGGCTGCA
GAGCCTCTGGGCCACGGGCCGGCTAGACGCAGGGGTCAAATTTCTTCTTCCACTTTCGCT
GCCGCATGTTTCAAGGAAAGTGACAGGCTGTGTCTGCAGGACCTGCTCTTC
AAGCACTACTGCTACCCAGAGCGGGACCCCGAGGAGGTGTTTGCCTTCTGCTGCGCTT
CCCCACGTGGCCCTCTTACCTTCGATGGCCTGGACGAGCTGCACTCGGACTTGGACC
TGAGCCGCGTGCCTGACAGCTCCTGCCCTGGGAGCCTGCCACCCCTGGTCTTGCTG
GCCAACCTGCTCAGTGGGAAGCTGCTCAAGGGGGCTAGCAAGCTGCTCACAGCCCGCAC
AGGCATCGAGGTCCCGCGCCAGTTCTGCGGAAGAAGGTGCTTCTCCGGGGCTTCTCCC
CCAGCCACCTGCGCGCCTATGCCAGGAGGATGTTCCCCGAGCGGGCCCTGCAGGACCGC
CTGCTGAGCCAGCTGGAGGCCAACCCCAACCTCTGCAGCCTGTGCTCTGTGCCCTCTT
CTGCTGGATCATCTTCCGGTGCTTCCAGCACTTCCGTGCTGCCTTTGAAGGCTCACCAC
AGCTGCCCCGACTGCACGATGACCCTGACAGATGTCTTCTCCTGGTCACTGAGGTCCAT
CTGAACAGGATGCAGCCCAGCAGCCTGGTGCAGCGGAACACACGCAGCCCAGTGGAGAC
CCTCCACGCCGCGCCGGGACACTCTGTGCTCGCTGGGGCAGGTGGCCCACCGGGGCATGG
AGAAGAGCCTCTTTGTCTTCAACCAGGAGGAGGTGCAGGCCTCCGGGCTGCAGGAGAGA
GACATGCAGCTGGGCTTCTTGCGGGCTTTGCCGGAGCTGGGCCCCGGGGGTGACCAGCA
GTCCTATGAGTTTTTCCACCTCAGCCTCCTCACCTGTAAAACTGGGATCCAGTATAGA
CTTTGGAAATCAGTAGACACCATATGCTTCAAAAAACAGGGGCTATTAAATGACATCA
GGAGCCAGAAAGTCTCATGGCTGTGCTTTCTTTGAAGTTTATACAACAACCAGATCAC
CGATGTCGGAGCCAGACTGGGAAAAAACAAATAACAAGTGAAGGAGGGAAGTATCTCG
CCCTGGCTGTGAAGAACAGCAAATCAATCTCTGAGGTTGGGATGTGGGGCAATCAAGTT
GGGGATGAAGGAGCAAAAGCCTTCGCAGAGGCTCTGCGGAACCAACCCAGCTTGACCAC
CCTGAGTCTTGCGTCCAACGGCATCTCCACAGAAGGAGGAAAGAGCCTTGCGAGGGCCC
TGCAGCAGAACACGTCTCTAGAAATACTGTGGCTGACCCAAAATGAACTCAACGATGAA
GTGGCAGAGAGTTTGGCAGAAATGTTGAAAGTCAACCAGACGTTAAAGCATTATGGCT
TATCCAGAATCAGATCACAGTCTTTTGTGTGCTGTTAAAGGGGCTTGCAGAGGCGG
GACTATCAGGAGTCCACTGCCTCCATGATGCAAGCCAGCTTCTGTGCAGAAGGTCTGG
TCGGCAAACCTCCCTAAGTACCCGCTACAATTCTGCAGAAAAAGAATGTGTCTTGCGAGC
TGTTGTAGTTACAGTAAATACACTGTGAAGAGACTTTATTGCCTATTATAATTATTTTT
ATCTGAAGCTAGAGGAATAAAGCTGTGAGCAAACAGAGGAGGCCAGCCTCACCTCATTC
CAACACCTGCCATAGGGACCAACGGGAGCGAGTTGGTCACCGCTCTTTTCATTGAAGAG
TTGAGGATGTGGCACAAGTTGGTGCCAAGCTTCTTGAATAAAACGTGTTTGATGGATT
AGTATTATACCTGAAATATTTTCTTCTCCTCAGCACTTTCCCATGTATTGATACTGGT
CCCACTTCACAGCTGGAGACACCGGAGTATGTGCAGTGTGGGATTTGACTCCTCCAAGG
TTTTGTGGAAGTTAATGTCAAGGAAAGGATGCACCACGGGCTTTTAATTTTAATCCTG
GAGTCTCACTGTCTGCTGGCAAAGATAGAGAATGCCCTCAGCTCTTAGCTGGTCTAAGA
ATGACGATGCCTTCAAAATGCTGCTTCCACTCAGGGCTTCTCCTCTGCTAGGCTACCCT
CCTCTAGAAGGCTGAGTACCATGGGCTACAGTGTCTGGCCTTGGGAAGAAGTGATTCTG
TCCCTCCAAAGAAATAGGGCATGGCTTGCCCTGTGGCCCTGGCATCCAAATGGCTGCT
TTTGTCTCCCTTACCTCGTGAAGAGGGGAAGTCTTCTCCTGCCTCCCAAGCAGCTGAAG
GGTGACTAAACGGGCGCCAAGACTCAGGGGATCGGCTGGGAACTGGGCCAGCAGAGCAT
GTTGGACACCCCCACCATGGTGGGCTTGTGGTGGCTGCTCCATGAGGGTGGGGGTGAT
ACTACTAGATCACTTGTCTCTTGCCAGCTCATTTGTTAATAAAATACTGAAAAACAAA
AA
AAAAAAAAAAAAA (SEQ ID NO:25)

FIG. 5

Applicant(s): John Bertin

NOVEL MOLECULES OF THE CARD-RELATED PROTEIN
FAMILY AND USES THEREOF

HASDLLKNDYFSAEDAEIVCACPTQPDKVRKILDLVQSKGEEVSEFFLYLL
OQLADAYVDLRPWLLEIGFSPSLLTQSKVVNTDPVSRYTQQLRHHLGRDS
KFVLCY AQKEELLLEIYMDTIMELVGFSNESLGSLNSLACLLDHTTGILN
EQGETIFILGDAGVGKSMMLLQRLQSLWATGRLDAGVKFFFHFRCRMFS CFK
ESDRLCLQDLLFKHYCYPERDP EEVFAFLLRFPHVALFTFDGLDELHSDLD
LSRVPDSSCPWEPAHPLVLLANLLSGKLLKGASKLLTARTGIEVPRQFLRK
KVLLRGFSPSHLRAYARMFPERALQDRLLSQLEANPNLCSLCSVPLFCWI
IFRCFQHFRAAFEGSPQLPDCTMTLTDVFLLVTEVHLNRMQPSSLVQRNTR
SPVETLHAGRDTLCSLGQVAHRGMEKSLFVFTQEEVQASGLQERDMQLGFL
RALPELGPGGDQQSYEFFHLSLLTCKTGIPV (SEQ ID NO:26)

FIG. 6

Applicant(s): John Bertin

NOVEL MOLECULES OF THE CARD-RELATED PROTEIN
FAMILY AND USES THEREOF

SEQ. ID NO. 31/32/33/34

1	E	S	H	P	H	I	-	-	Q	L	L	K	S	N	R	E	L	L	V	T	H	I	R	N	T	Q	C	L	-	-	V	D	N	L	L	K	N	D	Y	CARD4-CARD			
1	L	-	Q	P	G	I	A	Q	Q	W	I	Q	S	K	R	E	D	I	V	N	Q	M	T	E	A	-	C	L	N	Q	-	-	L	D	A	L	L	S	R	D	L	CARD3-CARD	
1	A	Q	E	R	-	-	P	S	-	-	I	D	R	R	E	K	R	L	V	E	T	L	Q	A	D	S	G	L	L	-	-	L	D	A	L	L	A	R	G	V	ARC-CARD		
1	M	A	S	D	D	L	S	-	-	L	I	R	K	N	R	M	A	L	F	Q	Q	L	T	-	-	-	C	V	L	P	I	L	D	N	L	L	K	A	N	V	CIAP1-CARD		
1	K	E	S	N	D	L	L	-	-	L	I	R	K	N	R	M	A	L	F	Q	Q	H	L	T	-	-	-	C	V	I	P	I	L	D	S	L	L	T	A	G	I	CIAP2-CARD	
36	F	S	A	E	D	A	E	I	V	C	A	C	P	T	Q	P	D	K	V	R	K	I	L	D	L	V	Q	S	K	G	E	E	V	S	E	F	E	L	Y	L	CARD4-CARD		
39	I	M	K	E	D	Y	E	L	V	S	T	K	P	T	R	T	S	K	V	R	Q	L	L	D	T	T	D	I	Q	G	E	E	F	A	K	V	I	V	Q	K	CARD3-CARD		
37	L	T	G	P	E	Y	E	A	L	D	A	L	P	D	A	E	R	R	V	R	L	L	L	L	L	V	Q	G	K	G	E	A	A	C	Q	E	L	L	R	C	ARC-CARD		
36	I	N	K	Q	E	H	D	I	I	K	Q	K	T	Q	I	P	L	Q	A	R	E	L	I	D	T	I	W	V	K	G	N	A	A	A	N	I	F	K	N	C	CIAP1-CARD		
36	I	N	E	Q	E	H	D	V	I	I	K	Q	K	T	Q	T	S	L	Q	A	R	E	L	I	D	T	I	L	V	K	G	N	I	A	A	T	V	F	R	N	S	CIAP2-CARD	
76	L	Q	Q	L	A	D	A	Y	V	D	L	R	P	W	-	-	L	L	E	I	G	F	S	P	S	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CARD4-CARD
79	L	K	D	N	K	Q	-	-	M	G	L	Q	P	Y	P	E	I	L	V	S	R	S	P	S	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CARD3-CARD
77	A	Q	R	T	A	G	A	P	D	P	A	W	D	W	Q	H	V	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ARC-CARD	
76	L	K	E	I	D	S	T	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CIAP1-CARD		
76	L	Q	E	A	E	A	V	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CIAP2-CARD		

FIG. 7

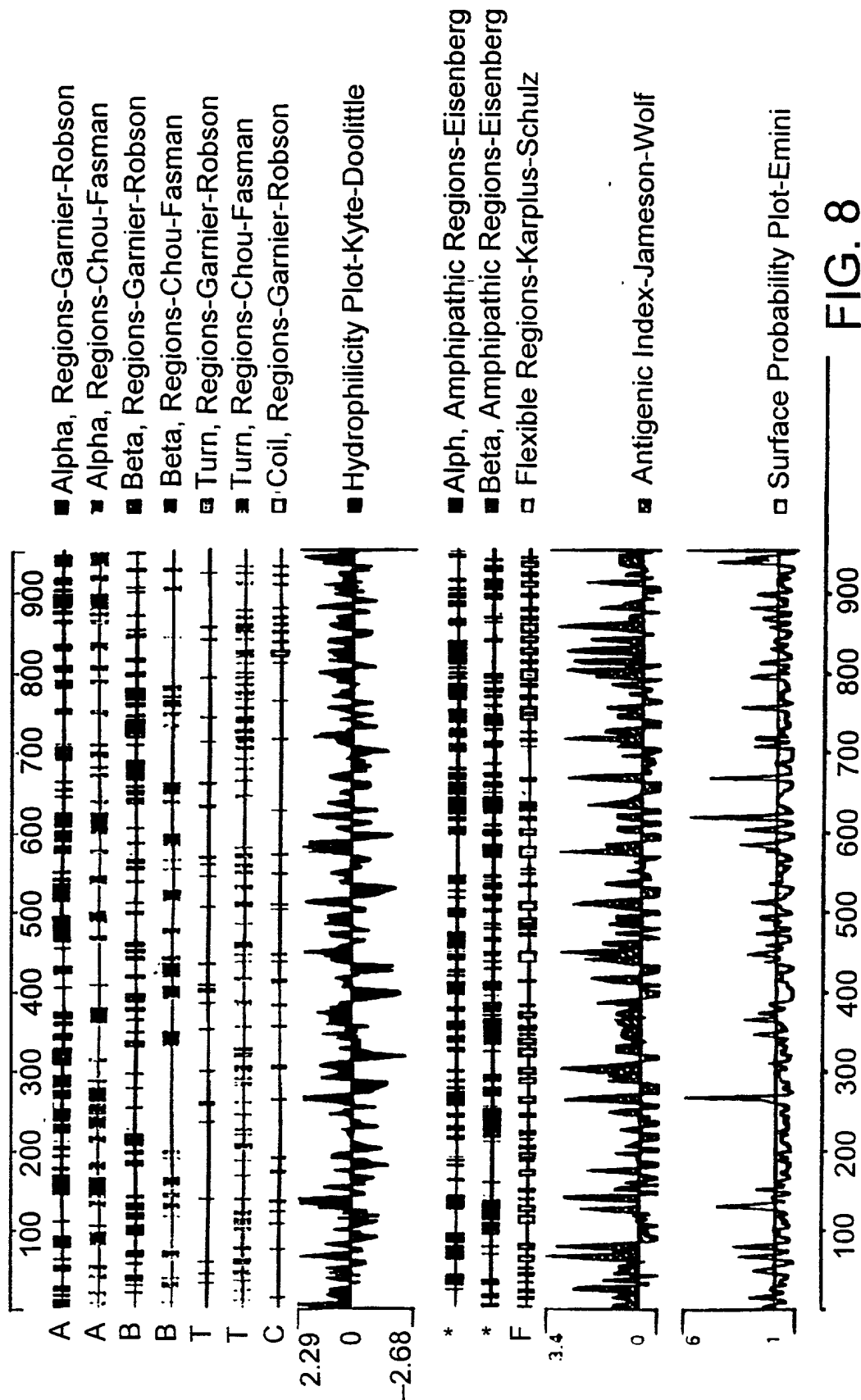


FIG. 8

Applicant(s): John Bertin

NOVEL MOLECULES OF THE CARD-RELATED PROTEIN
FAMILY AND USES THEREOF